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November 2005

Transactions on Programming Languages and Systems (TOPLAS), Volume 27 Issue**Publisher:** ACM  [Request Permissions](#)Full text available:  [Pdf](#) (622.69 KB)**Bibliometrics:** Downloads (6 Weeks): 20, Downloads (12 Months): 247, Downloads (Overall): 1589, Citation Count:


Many important applications must run continuously and without interruption, and yet also must be changed to bugs or upgrade functionality. No prior general-purpose methodology for dynamic updating achieves a practical balance between flexibility, ...

Keywords: Dynamic software updating, typed assembly language2 [Object-based and image-based object representations](#) [Hanan Samet](#)


June 2004

Computing Surveys (CSUR), Volume 36 Issue 2**Publisher:** ACM  [Request Permissions](#)Full text available:  [Pdf](#) (1.05 MB)**Bibliometrics:** Downloads (6 Weeks): 31, Downloads (12 Months): 261, Downloads (Overall): 3589, Citation Count:

An overview is presented of object-based and image-based representations of objects by their interiors. The representations are distinguished by the manner in which they can be used to answer two fundamental queries database applications: (1) Feature ...

Keywords: Access methods, R-trees, feature query, geographic information systems (GIS), image space, local query, object space, octrees, pyramids, quadrees, space-filling curves, spatial databases3 [Context-aware optimization of continuous range queries maintenance for trajectories](#) [Goca Trajcevski](#), [Hui Ding](#), [Peter Scheuermann](#)

June 2005


MobiDE '05: Proceedings of the 4th ACM international workshop on Data engineering for wireless and mobile access**Publisher:** ACM  [Request Permissions](#)Full text available:  [Pdf](#) (183.44 KB)**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 24, Downloads (Overall): 311, Citation Count: 4

This work addresses the problem of efficient *maintenance* of the (correct) answers to the continuous spatiotemporal range queries in Moving Objects Databases (MOD), which represent the objects' motion as *trajectories*. Specifically, we consider ...


Keywords: moving objects databases, triggers4 [An integrated approach to recovery and high availability in an updatable, distributed data warehouse](#)

[Edmond Lau, Samuel Madden](#)


September 2006

VLDB '06: Proceedings of the 32nd international conference on Very large data bases**Publisher:** VLDB EndowmentFull text available:  [Pdf](#) (669.84 KB)**Bibliometrics**: Downloads (6 Weeks): 26, Downloads (12 Months): 192, Downloads (Overall): 905, Citation Count:


Any highly available data warehouse will use some form of data replication to tolerate machine failures. In this paper, we demonstrate that we can leverage this data redundancy to build an integrated approach to recovery high availability. Our approach, ...

5 [Combinators for bidirectional tree transformations: A linguistic approach to the view-update problem](#) [J. Nathan Foster, Michael B. Greenwald, Jonathan F. Moore, Benjamin C. Pierce, Alan Schmitt](#)


May 2007

Transactions on Programming Languages and Systems (TOPLAS), Volume 29 Issue 3**Publisher:** ACM  [Request Permissions](#)Full text available:  [Pdf](#) (1.06 MB)**Bibliometrics**: Downloads (6 Weeks): 13, Downloads (12 Months): 142, Downloads (Overall): 557, Citation Count:

We propose a novel approach to the *view-update problem* for tree-structured data: a domain-specific programming language in which all expressions denote bidirectional transformations on trees. In one direction, these transformations---dubbed *lenses*---map ...

Keywords: Bidirectional programming, Harmony, XML, lenses, view update problem**6** [Client-server computing in mobile environments](#) [Jin Jang, Abdelkalam Sumi Helal, Ahmed Elmagarmid](#)

June 1999

Computing Surveys (CSUR), Volume 31 Issue 2**Publisher:** ACM  [Request Permissions](#)Full text available:  [Pdf](#) (233.31 KB)**Bibliometrics**: Downloads (6 Weeks): 76, Downloads (12 Months): 562, Downloads (Overall): 6139, Citation Count:

Recent advances in wireless data networking and portable information appliances have engendered a new paradigm of computing, called mobile computing, in which users carrying portable devices have access to data information services ...

Keywords: application adaptation, cache invalidation, caching, client/server, data dissemination, disconnected operation, mobile applications, mobile client/server, mobile computing, mobile data, mobility awareness, survey system application**7** [Detecting attribute dependencies from query feedback](#)[Peter J. Haas, Fabian Hueske, Volker Markl](#)

September 2007

VLDB '07: Proceedings of the 33rd international conference on Very large data base**Publisher:** VLDB EndowmentFull text available:  [Pdf](#) (479.68 KB)**Bibliometrics**: Downloads (6 Weeks): 5, Downloads (12 Months): 33, Downloads (Overall): 128, Citation Count: 2

Real-world datasets exhibit a complex dependency structure among the data attributes. Learning this structure a key task in automatic statistics configuration for query optimizers, as well as in data mining, metadata discovery and system management. ...

8 [Labels and event processes in the Asbestos operating system](#)

[Steve Vandeboogaert](#), [Petros Efstathiopoulos](#), [Eddie Kohler](#), [Maxwell Krohn](#), [Cliff Frev](#), [David Ziegler](#), [Frans Kaashoek](#)
[Robert Morris](#), [David Mazieres](#)

December 2007

Transactions on Computer Systems (TOCS) , Volume 25 Issue 4

Publisher: ACM  [Request Permissions](#)


Full text available:  [Pdf](#) (1.21 MB)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 111, Downloads (Overall): 523, Citation Count:

Asbestos, a new operating system, provides novel labeling and isolation mechanisms that help contain the effects of exploitable software flaws. Applications can express a wide range of policies with Asbestos's kernel-enforced labels, including controls ...

Keywords: Information flow, labels, mandatory access control, process abstractions, secure Web servers


9 [Replay-based approaches to revision processing in stream query engines](#)

 [Anuraag S. Maskey](#), [Mitch Cherniack](#)

March 2008

SSPS '08: Proceedings of the 2nd international workshop on Scalable stream processing sys

Publisher: ACM

Full text available:  [Pdf](#) (433.78 KB)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 31, Downloads (Overall): 96, Citation Count: 0

Data stream processing systems have become ubiquitous in academic and commercial sectors, with application areas that include financial services, network traffic analysis, battlefield monitoring and traffic control. The application only model of streams implies ...

Keywords: corrections, revision processing, revisions, streams


10 [Supporting Temporal Views in a Management Information Base](#)

[Vassilios Tsotras](#), [Vidyadhar Phalke](#), [Anil Kumar](#), [B. Gopinath](#)

June 1999

Journal of Network and Systems Management , Volume 7 Issue 2

Publisher: Plenum Press


Full text available:  [Publisher Site](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count:

In many network management applications, like post-mortem fault analysis or performance trends profiling, it is advantageous to have the ability to view the state of the network as it was at some time in the past. To support such Temporal Views ...

Keywords: DATA ORGANIZATION, HISTORICAL QUERIES, NETWORK MANAGEMENT, TEMPORAL DATABASES


11 [A taxonomy of Data Grids for distributed data sharing, management, and processing](#)

 [Srikumar Venugopal](#), [Raikumar Buyya](#), [Kotagiri Ramamohanarao](#)

June 2006

Computing Surveys (CSUR) , Volume 38 Issue 1

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (1.70 MB)

Bibliometrics: Downloads (6 Weeks): 96, Downloads (12 Months): 863, Downloads (Overall): 6494, Citation Count:

Data Grids have been adopted as the next generation platform by many scientific communities that need to share access, transport, process, and manage large data collections distributed worldwide. They combine high-end computing technologies with high-performance ...

Keywords: Grid computing, data-intensive applications, replica management, virtual organizations

12 [A Model to Disambiguate Natural Language Parses on the Basis of User Language Proficiency: Design and Evaluation](#)

[Lisa N. Michaud](#), [Kathleen E. McCoy](#), [Rashida Z. Davis](#)

March 2005

User Modeling and User-Adapted Interaction , Volume 15 Issue 1-2

Publisher: Kluwer Academic Publishers

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count:

This paper discusses the design and evaluation of an implemented user model in ICLCLE, an instruction system for users writing in a second language. We show that in the task of disambiguating natural language parses, a blended model combining overlay ...

Keywords: computer-aided language learning, learner modeling, natural language, parse disambiguation

13 [A hierarchy-aware approach to faceted classification of objected-oriented components](#)

[E. Damiani](#), [M. G. Fugini](#), [C. Bellietini](#)



July 1999

Transactions on Software Engineering and Methodology (TOSEM), Volume 8 Issue 3

Publisher: ACM [Request Permissions](#)

Full text available: [Pdf](#) (310.25 KB)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 64, Downloads (Overall): 803, Citation Count: 7

This article presents a hierarchy-aware classification schema for objected-oriented code, where software components are classified according to their behavioral characteristics, such as provided services, employed algorithms, and needed ...

Keywords: code analysis, component repositories, component retrieval, software reuse, user feedback

14 [3D Perception and Environment Map Generation for Humanoid Robot Navigation](#)

[Jens-Steffen Gutmann](#), [Masaki Fukuchi](#), [Masahiro Fujita](#)

October 2008

International Journal of Robotics Research, Volume 27 Issue 10

Publisher: Sage Publications, Inc.

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count:

A humanoid robot that can go up and down stairs, crawl underneath obstacles or simply walk around requires reliable perceptual capabilities for obtaining accurate and useful information about its surroundings. In this work we present a system for ...

Keywords: 3D environment perception, humanoid robot navigation, range image segmentation, stereo vision

15 [D\(k\)-index: an adaptive structural summary for graph-structured data](#)

[Gun Chen](#), [Andrew Lim](#), [Kian Win Oua](#)



June 2003

SIGMOD '03: Proceedings of the 2003 ACM SIGMOD international conference on Management of data

Publisher: ACM [Request Permissions](#)

Full text available: [Pdf](#) (217.30 KB)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 98, Downloads (Overall): 532, Citation Count: 4

To facilitate queries over semi-structured data, various structural summaries have been proposed. Structural summaries are derived directly from the data and serve as indices for evaluating path expressions on semi-structured or XML data. We introduce ...

16 [IDR/QR: an incremental dimension reduction algorithm via QR decomposition](#)

[Jieping Ye](#), [Qi Li](#), [Hui Xiong](#), [Haesun Park](#), [Ravi Janardan](#), [Vipin Kumar](#)



August 2004

KDD '04: Proceedings of the tenth ACM SIGKDD international conference on Knowledge discovery and data mining

Publisher: ACM [Request Permissions](#)

Full text available: [Pdf](#) (209.30 KB)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 44, Downloads (Overall): 549, Citation Count: 5

Dimension reduction is critical for many database and data mining applications, such as efficient storage and retrieval of high-dimensional data. In the literature, a well-known dimension reduction scheme is Linear Discriminant Analysis (LDA). The common ...

Keywords: QR decomposition, dimension reduction, incremental learning, linear discriminant analysis

17 [Mutatis Mutandis: Safe and predictable dynamic software updating](#)

[Gareth Stoyia](#), [Michael Hicks](#), [Gavin Bierman](#), [Peter Sewell](#), [Julian Neamtiu](#)



August 2007

Transactions on Programming Languages and Systems (TOPLAS), Volume 29 Issue 4

Publisher: ACM [Request Permissions](#)


Full text available: [Pdf](#) (1.43 MB)

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 154, Downloads (Overall): 535, Citation Count:

This article presents Proteus, a core calculus that models dynamic software updating, a service for fixing bugs : adding features to a running program. Proteus permits a program's type structure to change dynamically but guarantees the updated program ...

Keywords: Dynamic software updating, Proteus, capability, type inference, updateability analysis


18 [Compiling mappings to bridge applications and databases](#)

 [Sergey Melnik](#), [Atul Adya](#), [Philip A. Bernstein](#)

November 2008

Transactions on Database Systems (TODS) , Volume 33 Issue 4

Publisher: ACM  [Request Permissions](#)


Full text available:  [Pdf](#) (1.40 MB)

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 262, Downloads (Overall): 738, Citation Count:

Translating data and data access operations between applications and databases is a longstanding data management problem. We present a novel approach to this problem, in which the relationship between the application data and the persistent storage is ...

Keywords: Mapping, query rewriting, updateable views


19 [Improving instruction cache performance in OLTP](#)

 [Stavros Harizopoulos](#), [Anastasia Ailamaki](#)

September 2006

Transactions on Database Systems (TODS) , Volume 31 Issue 3

Publisher: ACM  [Request Permissions](#)


Full text available:  [Pdf](#) (783.16 KB)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 95, Downloads (Overall): 665, Citation Count: 4

Instruction-cache misses account for up to 40% of execution time in online transaction processing (OLTP) database workloads. In contrast to data cache misses, instruction misses cannot be overlapped with out-of-order execution. Chip design limitations ...



Keywords: Instruction cache, cache misses

20 [Communications of the ACM: Volume 52 Issue 1](#)

 January 2009

Communications of the ACM

Publisher: ACM





Full text available:  [Digital Edition](#) ,  [Pdf](#) (7.72 MB)

Bibliometrics: Downloads (6 Weeks): 246, Downloads (12 Months): 299, Downloads (Overall): 1449, Citation Cou

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